

ATTACHMENT B

Amendments to the Specification

Please replace the paragraph at page 10, lines 12-14 with the following amended paragraph.

Fig. 5 is a voltammogram similar to Fig. 4, without added NaOH, for electrodes with or without a ~~Nafion~~ NAFION layer.

Please replace the paragraph at page 13, lines 9-24 with the following amended paragraph.

In some embodiments, reagents may be present in the electrochemical cell that facilitate the measurement of multiple metabolites in the body fluid. These additional materials function to enhance the electrochemical response of the target metabolites. Examples include NaOH or other material capable of generating an alkaline environment around the electrodes. The formation of OH⁻ ions that lead to alkaline conditions in the vicinity of the working electrode may be formed chemically or electrochemically. Other materials that cause an acidic environment may also be used. Other materials may also be present as part of the electrochemical cell such as membranes that coat the electrode or have been placed elsewhere in the cell. Examples of membrane materials are ~~Nafion~~ NAFION, cellulose acetate, polyurethane, Kel F and polyvinyl chloride.

Please replace the paragraph at page 16, lines 8-15 with the following amended paragraph.

The glucose signal became attenuated when NaOH was omitted from ISF or when a predominantly plasma rich sample was used (80% v/v plasma). It was found

that the glucose signal could be improved by changing the measurement variables such as scan rate or coating the electrode with a thin membrane, ~~Nafion~~ NAFION, to exclude the largest macromolecules but still allow passage of glucose and other molecules through the membrane.

Please replace the paragraph at page 16, lines 16-18 with the following amended paragraph.

Figure 5 shows a typical response for glucose in ISF with and without the ~~Nafion~~ NAFION and in the absence of NaOH. ~~Nafion~~ NAFION was cast from a commercial solution preparation.